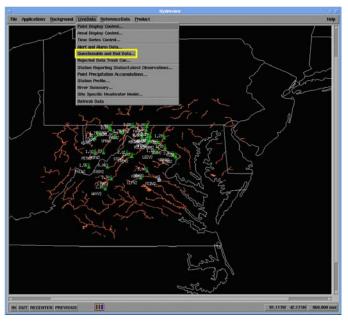
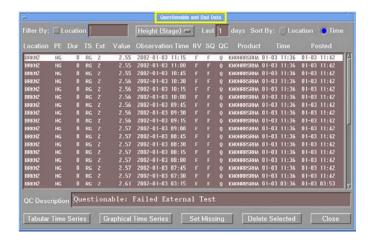
Quality Control and Alert/Alarm Limits (version 5.1.2)

Questionable and Bad Data

The Questionable and Bad Data window can be used to display data that have been marked as questionable or bad¹ by the quality control processes. The user can access this display from the Root Window in HydroView by clicking on the LiveData pull down menu. Click on Questionable and Bad Data. No information or data can be typed or edited in this window except entering the station location, setting the number of days back, and deleting

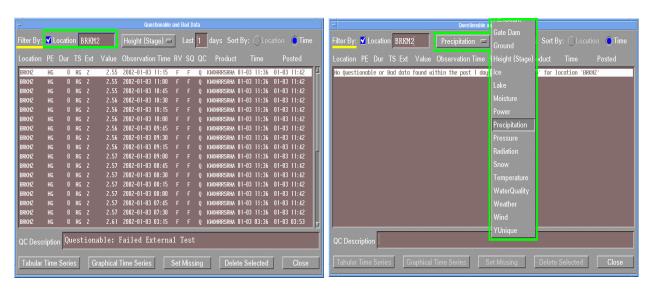
highlighted rows.



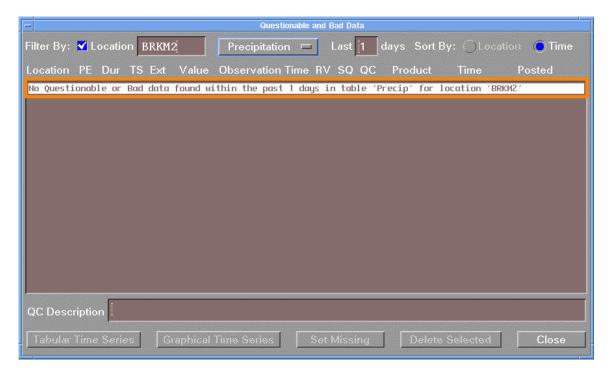


¹ Data flagged as bad may be viewed in the Rejected Data window. A shef token defined in the /awips/hydroapps/.Apps_defaults or /awips/hydroapps/.Apps_default_site file is used to determine if data flagged as bad is posted to the rejected data table or the actual physical element table in the database.

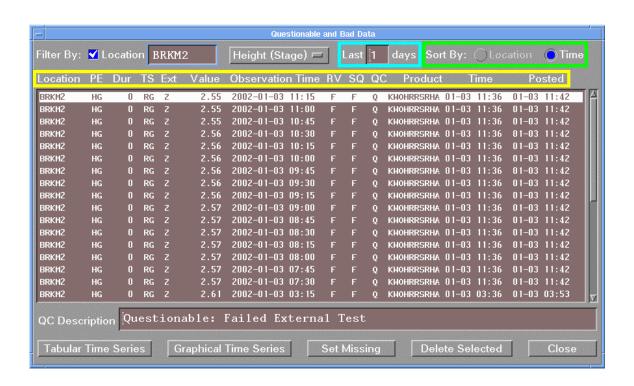
The **Filter By:** option is used to filter data anomalies list by: 1) location (type the location id and press enter) and/or 2) by a certain observation type (click on an observation type in the pull down list).



In the example below, precipitation was selected. There was no questionable or bad data found for precipitation. The following message will then read... "No questionable or bad data found within the past 1 days in the table 'Precipitation'" The message talks about ...the past 1 days in the table... which will be talked about next. The user may select a certain location, for a certain observation type, too, if so desired. The default is to display all locations.



Next to **Filter By:** is an option to select number of days back the computer should look in the list to display data. **Last __days** is the prompt for the user to type in a number to search, like a day or 30 days of questionable or bad data. After entering the number of days back to search, the user must hit the enter key for the search to take place. Last the **Sort By:** option allows the user to display the data in a specified order (location or time).



The header of the table displays the following information:

Location - location id

PE - physical element

Dur - duration code

TS - type source

Ext - extremum

Value - the observed value

Observation Time - date and time of the observed value

RV - revision or not to the data: T = revised, F = no revision

SQ - SHEF qualifier

 \mathbf{QC} - quality control code: \mathbf{Q} = questionable, \mathbf{B} = bad, \mathbf{G} = good

Product - product id

Time - date and time of the product

Posted - date and time of the data posted to the database

Within the table the user may click on an item to highlight it and display the quality control data anomaly description. The description can be read in the **QC Description** section below the table. The description gives the user a general idea why the data maybe questionable or bad. At the bottom of the screen the user may view the highlighted item by the **Tabular Time Series** or **Graphical Time Series**. The option **Set Missing** allows the user to change the data from its numerical value to "missing". He/She may delete highlighted data rows by clicking on **Delete Selected**. The **Close** option is to exit the window.

